

35. A method in accordance with claim 1, wherein,

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said soft decision samples are stored in said decision feedback equalizer filter in said first mode and used to adapt the parameters of said decision feedback equalizer filter using a first adaptation algorithm;

said hard decision samples are stored in said decision feedback equalizer filter in said second mode and used to adapt the parameters of said decision feedback equalizer filter using a second adaptation algorithm; and

said first adaptation algorithm is a Constant Modulus Algorithm, and said second adaptation algorithm is a Least Mean Squares Algorithm.

Respectfully submitted,
by



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